

NEW LPTV TRANSLATOR APPLICATION
OKLAHOMA COMMUNITY TELEVISION, LLC
NEW DIGITAL LPTV TRANSLATOR STATION
CH 25 - (546-542 MHZ) - 0.470 KW
ELK CITY, OKLAHOMA
January 2010

TECHNICAL STATEMENT

This Technical Statement and attached exhibits were prepared on behalf of Oklahoma Community Television, LLC ("OCT"). OCT is herein proposing a new digital low power television translator on Channel 25 at Elk City, Oklahoma. The proposed antenna site coordinates for the new digital low power television station on Channel 25 at Elk City, Oklahoma are more than 75 miles from the reference coordinates of any city listed in Appendix A of DA 09-1487.

The antenna system for the proposed Channel 25 facility will be located on an existing tower. As such, the Federal Aviation Administration has not been apprised of this proposal. The tower is registered with the Commission and has been assigned Antenna Structure Registration Number 1010044.

The proposed Channel 25 digital operation complies with the Commission's interference rules, based on the use of the Longley-Rice, OET-69 Bulletin.¹ It is noted that the terrain was sampled at 0.1 kilometer, and a signal cell size of 1.0 kilometer was used, with 2000 Census population reviews. A stringent emission mask was used in the calculations. Attached as

1) The Longley-Rice model was implemented on the Probe 3 computer model from V-Soft Communications. This model has been found to closely replicate the results provided by the Commission's computer model.

Exhibit A is a tabulation of the results of the Longley-Rice review showing the proposed facility causes no interference to any other existing, applied for or proposed facility, based on the database used on the indicated study date. No full service station receives predicted interference above 0.5% of its population, caused by this instant proposal. No secondary LPTV station receives predicted interference above 2.0% of its population, caused by this instant proposal, with the exception of the construction permit for K36AJ, Strong City, Oklahoma.

As noted on Exhibit A, the proposed new digital LPTV translator station on Channel 25 at Elk City, Oklahoma, is predicted to cause 2.2% interference to the Channel 25 analog displacement permit for K36AJ in Strong City, Oklahoma, which is also licensed to OCT. OCT hereby consents to the predicted interference to the K36AJ permit. To the extent necessary, OCT requests a waiver of §74.793(h). The de minimis interference will cease entirely once the low power digital transition is completed. For these reasons, OCT submits that a waiver in this instance would serve the public interest by advancing the digital transition with only de minimis actual interference to analog viewers.

Attached as Exhibit B is a radio frequency radiation analysis showing the proposed Channel 25 facility will not cause the RF levels at the site to exceed the Commission's exposure limits.²

2) The undersigned has certified only the RF exposure limits for the proposed facility. All data regarding TV facilities contained herein was extracted from the CDBS database, based on the date indicated on the channel review. We assume no liability for errors or omissions in that database which may be adverse to the request contained herein.